



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/692,654	10/24/2003	H. Donald Schwartz	D0419.70008US00	9919

7590 07/18/2005

David Wolf  
Wolf, Greenfield & Sacks, P.C.  
600 Atlantic Avenue  
Boston, MA 02210

EXAMINER
----------

RAEVIS, ROBERT R

ART UNIT	PAPER NUMBER
----------	--------------

2856

DATE MAILED: 07/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/692,654

Applicant(s)

SCHWARTZ, H. DONALD

Examiner

Robert R. Raevis

Art Unit

2856

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 05 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6 and 45 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 and 45 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 July 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 4-28-05/2-28-05
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_

### DETAILED ACTION

Claims 1-6,45 are rejected under 35 U.S.C. 102(b) as being anticipated by Keegan.

Keegan '734 teaches (Figure 3) a pipette, including: channel block 11 having a cylindrical passage extending there through; a rod 14 passing into the passage; a cylinder (element 60a) that passes into the cylindrical passage from the end opposite the end into which the rod passes; a chamber defined by the block, rod and cylinder, having a variable volume, with a portion of the chamber being variable by relative movement of the block relative to a relatively stationary cylinder and rod (which occurs when the piston 41a contacts the cylinder 60a (See "moves into contact" on col. 7, line 56), resulting in the cylinder moving relative to the contacting (i.e. relatively fixed) rod/cylinder positions), and with a second portion of the chamber being variable by relative movement of the cylinder relative to stationary block and rod (which occurs when the cylinder is inserted into a stationary block upon assembly of the unit).

As to claim 2, the chamber volume varies as a hand grasps the block 11, and a human operator depresses button 3.

As to claim 3, the piston 41a may be deemed to be a rod, and that piston diameter is greater than that of the cylinder 60a.

As to claim 4, note that either (1) the diameter of rod 14aa is less than that of the internal diameter of the channel, or (2) that the O-ring 43a suggests that the diameter of the piston 41a (or rod, if you will) is less than the internal diameter of the channel.

As to claims 5,6, note the extension member 12a that includes a passage, the member attached to an end of the cylinder at one end, and connected to a tip 55 at the other end.

As to claim 45, note that piston 41a may be called the rod, and that the piston does not extend through the cylinder.

As to Applicant's **REMARKS**, consider the following:

As to p. 9, lines 8-9 from the bottom of the page; please look at Figures 3 and consider the threaded portion that connects the block to the nozzle 12a. The nozzle 12a/spring 53a/cylinder 60a subcombination is inserted into the block 11a, allowing for relative movement there between. The left hand portion 16a of rod 14 is extending out of the cylinder 11a, suggestive that the subcombination 12a/53a/60a is placed over the rod, and then subsequently moved relative to a stationary block 11a and rod upon initial insertion. After the cylinder is inserted onto the rod and into the block 11a (and even before the cylinder 60a flange contacts the block flange (as viewed in Figure 3), this results in the volume between the cylinder 60a and rod 14 (second part of the chamber) being varied. When the rod 14a is displaced to the left, piston 41a contacts cylinders 60a resulting is displacement of both relative to the block 11a, resulting in the volume between the cylinder 60a and rod (first part of the chamber) being varied *due to* the different internal diameters of smaller diameter tube 27 (which contacts the piston) and larger internal diameter of the block 11a (which is adjacent the cylinder flange). After contacting, each unit of displacement of the piston 41a to the left

results in a small reduction of volume in the cylinder, what that same displacement of cylinder 60a to the left results in an increase in volume in the cylinder, the increase being greater than the reduction due to the different diameters described in the previous sentence.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert R. Raevis whose telephone number is 571-272-2204. The examiner can normally be reached on Monday to Friday from 5:30am to 3pm.

Art Unit: 2856

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams, can be reached on 571-272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*RCW*

RAZUS